

Grant-in-Aid for Transformative Research Areas (A)

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□ Distribution by Research Area of the Newly Adopted Projects

Purpose and Description of Grant-in-Aid for Transformative Research Areas(A) (excerpt from the “Application Procedures for Grants-in-Aid for Scientific Research” for FY2020):

1) Purpose:

Research areas proposed through co-creative and interdisciplinary efforts of diverse researchers, which aim to create research areas that will lead to radical transformation of and change in the existing framework direction of research as well as upgrade and level-up of scientific research in Japan and nurturing of young researchers, and will contribute to the development of the proposed research areas through efforts for collective research and shared use of equipment, etc.

2) Total budget provided:

The budget provided per research area is set at 50 million yen or greater up to 300 million yen per fiscal year. In a truly necessary case, a budget exceeding the maximum limit for each research area may be requested.

3) Research period:

5 years (application for research period other than the left is not subject to screening)

4) Number of research projects scheduled to be selected:

Similar number as the number of Scientific Research on Innovative Areas (Research in a Proposed Research Area) projects selected in FY2019 (18 projects) is scheduled to be selected.

【 New Projects 】

	Number of Applications			Total Grant Disbursements [※] (FY2020) (in thousands of yen)	Per-project Grants [※] (FY2020)	
	Received	Adopted	Ratio		Average	Largest
			(%)	(in thousands of yen)	(in thousands of yen)	(in thousands of yen)
Section I	23	4	17.4	279,300	69,825	81,700
Section II	93	7	7.5	1,671,100	238,729	256,400
Section III	81	6	7.4	1,559,300	259,883	300,000
Section IV	35	3	8.6	490,700	163,567	240,400
Total	232	20	8.6	4,000,400	200,020	300,000

※ Direct expense only

List of the Newly Adopted Projects for Grant-in-Aid for Transformative Research Areas (A) of KAKENHI, FY2020

(1) Section I (4 Projects)

(Thousands of Yen)

Number of Research Area	Head Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Annual Budget
					Budget throughout for the Entire Research Period
20A101	TSUKIURA Takashi 30344112	Kyoto University, Graduate School of Human and Environmental Studies, Professor	Lifelong sciences: Reconceptualization of development and aging in the super aging society	FY2020-2024	58,300
					759,600
20A102	OBATA Hiroki 80274679	Kumamoto University, Faculty of Humanities and Social Sciences, Professor	Excavating earthenware: Technology development-type research for construction of 22nd century archeological study and social implementation	FY2020-2024	81,600
					379,700
20A103	NAKAMURA Shin-ichi 80237403	Kanazawa University, Faculty of Letters, Professor	A New Archaeology Initiative to Elucidate the Formation Process of Chinese Civilization	FY2020-2024	57,700
					550,700
20A104	KUROKI Hidemitsu 20195580	Tokyo University of Foreign Studies, Research Institute for Languages and Cultures of Asia and Africa, Professor	Connectivity and Trust Building in Islamic Civilization	FY2020-2024	81,700
					575,700

(2) Section II (7 Projects)

(Thousands of Yen)

Number of Research Area	Head Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Annual Budget
					Budget throughout for the Entire Research Period
20A201	IMAHORI Hiroshi 90243261	Kyoto University, Graduate School of Engineering, Professor	Dynamic Exciton: Emerging Science and Innovation	FY2020-2024	201,800
					1,140,800
20A202	SAKAI Nami 70533553	RIKEN, Cluster for Pioneering Research, Chief Scientist	Next Generation Astrochemistry: Reconstruction of the Science Based on Fundamental Molecular Processes	FY2020-2024	206,800
					931,200
20A203	MURAYAMA Hitoshi 20222341	The University of Tokyo, Kavli Institute for the Physics and Mathematics of the Universe, Professor	What is dark matter? - Comprehensive study of the huge discovery space in dark matter	FY2020-2024	255,300
					1,130,500
20A204	SEKI Shu 30273709	Kyoto University, Graduate School of Engineering, Professor	Condensed Conjugation Molecular Physics and Chemistry: Revisiting "Electronic Conjugation" Leading to Innovative Physical Properties of Molecular Materials	FY2020-2024	256,400
					1,168,000
20A205	YAMAYOSHI Asako 70380532	Nagasaki University, Graduate School of Biomedical Sciences, Professor	Biophysical Chemistry for Material Symbiosis	FY2020-2024	247,000
					1,144,300
20A206	HAYASHI Koichi 20283632	Nagoya Institute of Technology, Faculty of Engineering, Professor	Progressive condensed matter physics inspired by hyper-ordered structures	FY2020-2024	248,000
					1,155,300
20A207	MATOBA Osamu 20282593	Kobe University, Organization for Advanced and Integrated Research, Professor	Comprehensive understanding of scattering and fluctuated fields and science of clairvoyance	FY2020-2024	255,800
					1,159,100

(3) Section III (6 Projects)

(Thousands of Yen)

Number of Research Area	Head Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Annual Budget
					Budget throughout for the Entire Research Period
20A301	OKABE Shigeo 60204012	The University of Tokyo, Graduate School of Medicine, Professor	Glia decoding: deciphering information critical for brain-body interactions	FY2020-2024	299,900
					1,222,400
20A302	MATSUSHITA Tomonao 20464399	Kyoto University, Graduate School of Science, Professor	Multi-layered regulatory system of plant resilience under fluctuating environment	FY2020-2024	300,000
					1,204,200
20A303	KANO Masanobu 40185963	The University of Tokyo, Graduate School of Medicine, Professor	Inducing lifelong plasticity (iPlasticity) by brain rejuvenation: elucidation and manipulation of critical period mechanisms	FY2020-2024	300,000
					1,247,500
20A304	TAGUCHI Hideki 40272710	Tokyo Institute of Technology, Institute of Innovative Research, Professor	Multifaceted Proteins: Expanding and Transformative Protein World	FY2020-2024	300,000
					1,211,200
20A305	NISHIYAMA Tomoko 90615535	Nagoya University, Graduate School of Science, Associate Professor	Genome modality: understanding physical properties of the genome	FY2020-2024	159,400
					1,140,400
20A306	INOUE Yasuhiro 80442929	Kyoto University, School of Engineering, Professor	Material properties determine body shapes and their constructions	FY2020-2024	200,000
					1,147,300

(4) Section IV (3 Projects)

(Thousands of Yen)

Number of Research Area	Head Investigator (Name, Researcher Number, Research Institution)		Title	Term of Project	Annual Budget
					Budget throughout for the Entire Research Period
20A401	NISHIDA Shin'ya 20396162	Kyoto University, Graduate School of Informatics, Professor	Analysis and synthesis of deep SHITSUKAN information in the real world	FY2020-2024	226,900
					1,150,800
20A402	MINATO Shin-ichi 10374612	Kyoto University, Graduate School of Informatics, Professor	Creation and Organization of Innovative Algorithmic Foundations for Social Advancement	FY2020-2024	23,400
					856,800
20A403	MURATA Satoshi 10334533	Tohoku University, Graduate School of Engineering, Professor	Molecular Cybernetics -Development of Minimal Artificial Brain by the Power of Chemistry	FY2020-2024	240,400
					1,131,500